

# Interrupt

Interrupt Latency  
Interrupt Priority

## Interrupt Service routines

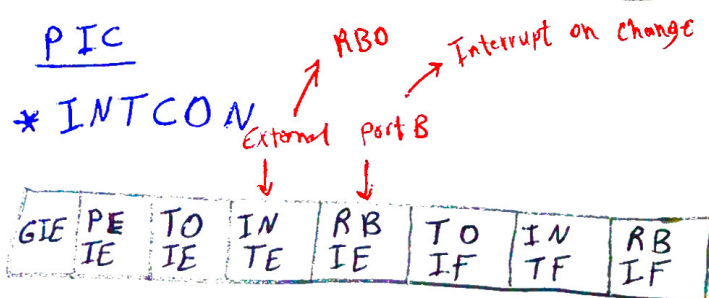
- The program to be executed responding to interrupt activation

## Sources of Interrupts

- 1- peripheral Interrupt
- 2- External Interrupt

- Interrupt Enable → IE
- Interrupt Flag → IF

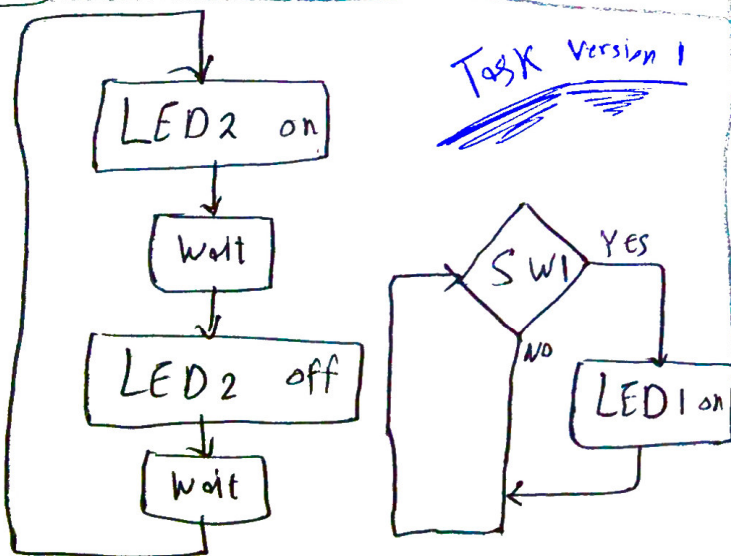
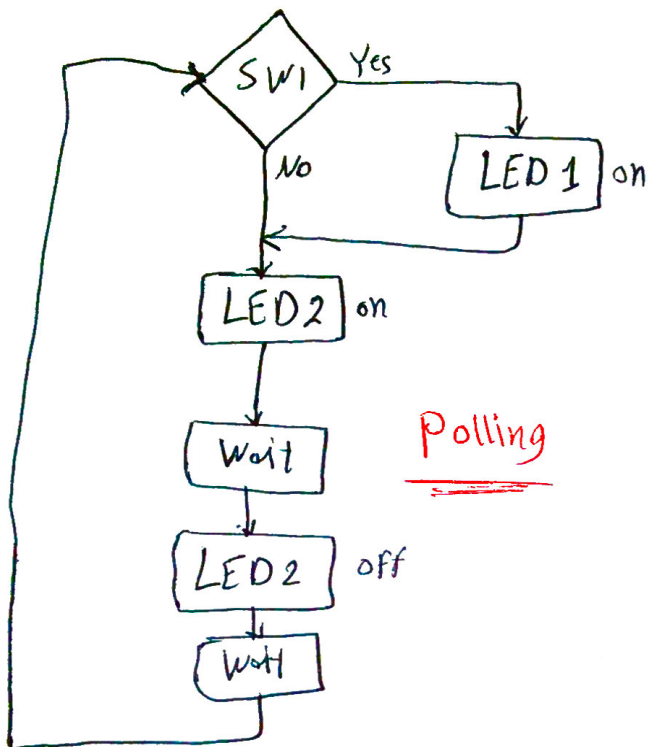
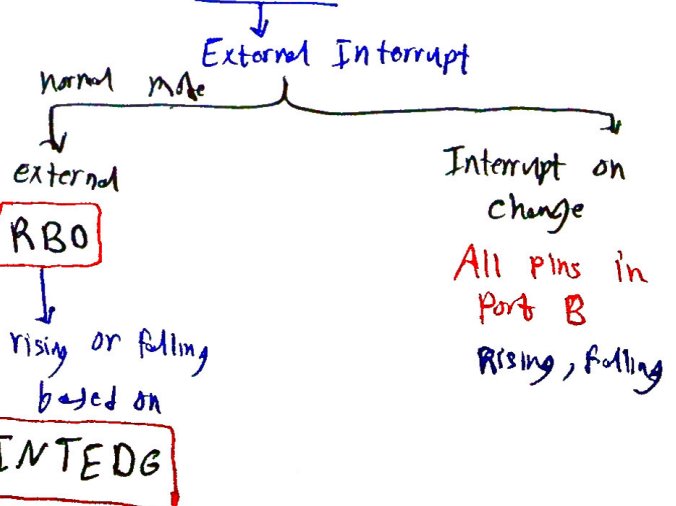
## PIC



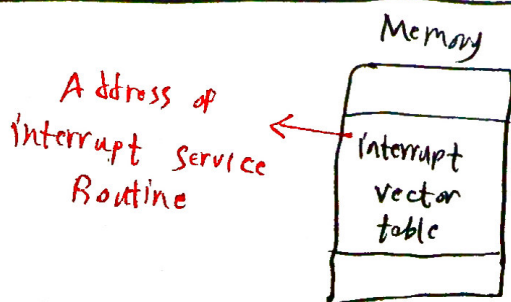
- \* **PIE1, PIE2** → peripherals Enable
- \* **PIR1, PIR2** → peripherals Flag
- \* **IOCB** → Interrupt on change Enable
- \* **OPTION-REG (INTEDG)**

In PIC → Timer 0 is considered as internal interrupt not peripheral

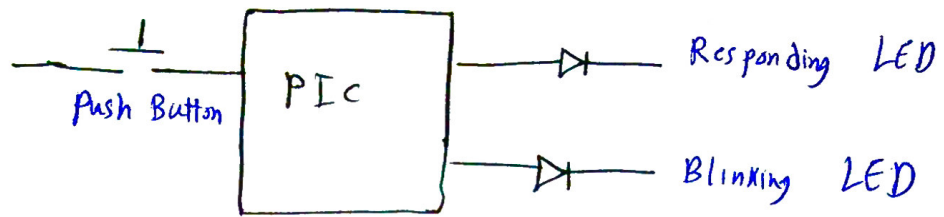
## PORT B



interrupt (Hardware Signal)



# Task



## Version 1

Press push Button → R LED on  
Depress push Button → R LED off

Blinking Led on/off Every 5 sec → main

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## Version 2

Press push Button → R LED on → off  
off → on } → Change state

Blinking Led on/off every 5 sec → main